

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of: Dresch et. al  
Serial No.: 09/808,468  
Art Unit: 2881  
Examiner: K. T. Nyguen  
Filing Date: March 14, 2001  
For: Ion Storage Time-Of-Flight  
Mass Spectrometer  
Attorney Docket No. 840.066.202

May 2, 2005

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**VIA FAX (703) 872-9306**  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

AMENDMENT/RESPONSE

Sir:

In response to the Official Action of March 1, 2005, please amend this application as follows:

Amend Claim 11 as follows:


11. (Fourth Amendment) An apparatus for analyzing chemical species comprising:
- (a) a time-of-flight mass analyzer with an ion pulsing region and a detector,
  - (b) an ion source for producing ions forming an ion beam from said chemical species,
  - (c) a two-dimensional multipole ion guide having an ion guide axis of symmetry and having an entrance end where ions enter said ion guide from said ion source and an exit end where ions exit said ion guide, said two-dimensional multipole ion guide functioning as a two-dimensional ion trap, wherein said two-dimensional multipole ion guide comprises a plurality of spaced apart rods parallel to each other and extending from said entrance end to said exit end, said ion beam having an axis thereof which is parallel to said spaced apart rods, said two dimensional ion trap trapping ions

in all axes including the axis which is generally parallel to the ion guide axis of symmetry,

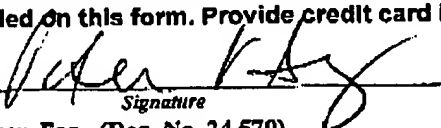
(d) means for pulsing said ions, transferred into said pulsing region, into said time-of-flight mass analyzer for mass analysis, and

(e) means for detecting said mass analyzed ions.

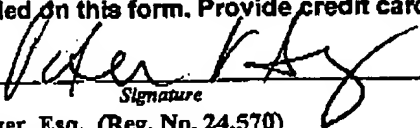
A COMPLETE LISTING OF THE CLAIMS FOLLOWS THE SIGNATURE PAGE OF THIS AMENDMENT.

<b>CERTIFICATE OF TRANSMISSION BY FACSIMILE (37 CFR 1.8)</b>			Docket No. 840.066.202
Applicant(s): Dresch, et al.			
Application No. 09/808,468	Filing Date 3/14/01	Examiner K.T. Nyguen	Group Art Unit 2881
Invention: ION STORAGE TIME-OF-FLIGHT MASS SPECTROMETER			
			RECEIVED CENTRAL FAX CENTER MAY 02 2005
I hereby certify that this <u>Amendment Transmittal and Amendment</u> (Identify type of correspondence) is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. <u>703-872-9306</u> ) on <u>May 2, 2005</u> (Date)			
<u>Wanda Ruggiera</u> (Typed or Printed Name of Person Signing Certificate)  (Signature)			
Note: Each paper must have its own certificate of mailing.			

P18/REV02

<b>AMENDMENT TRANSMITTAL LETTER (Small Entity)</b>					Docket No. 840.066.202	
Applicant(s): Dresch, et al.						
Application No. 09/808,468	Filing Date 3/14/01	Examiner Nyguen	Customer No. 04617	Group Art Unit 2881	Confirmation No. 4227	
Invention: ION STORAGE TIME-OF-FLIGHT MASS SPECTROMETER						
<b>COMMISSIONER FOR PATENTS:</b>						
Transmitted herewith is an amendment in the above-identified application.						
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27						
The fee has been calculated and is transmitted as shown below.						
<b>CLAIMS AS AMENDED</b>						
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE	
TOTAL CLAIMS	3 -	20 =	0	x \$25.00	\$0.00	
INDEP. CLAIMS	1 -	3 =	0	x \$100.00	\$0.00	
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00	
<b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT</b>					<b>\$0.00</b>	
<input checked="" type="checkbox"/> No additional fee is required for amendment. <input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of _____ <input type="checkbox"/> A check in the amount of _____ to cover the filing fee is enclosed. <input checked="" type="checkbox"/> The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 02-2105 <input checked="" type="checkbox"/> Any additional filing fees required under 37 C.F.R. 1.16. <input checked="" type="checkbox"/> Any patent application processing fees under 37 CFR 1.17. <input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached. <b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b>						
 Signature <b>Peter L. Berger, Esq. (Reg. No. 24,570)</b> <b>Levlsohn, Berger &amp; Langsam, LLP</b> <b>805 Third Avenue, 19th Floor</b> <b>New York, New York 10022</b> <b>Phone (212) 486-7272 ext. 302</b> <b>Fax (212) 486-0323</b>			Dated: May 2, 2005  <div style="border: 1px solid black; padding: 5px;">             I certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" (37 CFR 1.8(a)) on _____              (Date)               _____              Signature of Person Mailing Correspondence               _____              Typed or Printed Name of Person Mailing Correspondence           </div>			
CC:						

P11SMALL/REV05

<b>AMENDMENT TRANSMITTAL LETTER (Small Entity)</b>					Docket No. 840.066.202	
Applicant(s): Dresch, et al.						
Application No. 09/808,468	Filing Date 3/14/01	Examiner Nyguen	Customer No. 04617	Group Art Unit 2881	Confirmation No. 4227	
Invention: ION STORAGE TIME-OF-FLIGHT MASS SPECTROMETER						
<b>COMMISSIONER FOR PATENTS:</b>						
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Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00	
<b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT</b>					<b>\$0.00</b>	
<input checked="" type="checkbox"/> No additional fee is required for amendment. <input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of _____ <input type="checkbox"/> A check in the amount of _____ to cover the filing fee is enclosed. <input checked="" type="checkbox"/> The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 02-2105 <input checked="" type="checkbox"/> Any additional filing fees required under 37 C.F.R. 1.16. <input checked="" type="checkbox"/> Any patent application processing fees under 37 CFR 1.17. <input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached. <b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b>						
 Signature Peter L. Berger, Esq. (Reg. No. 24,570) Levisohn, Berger & Langsam, LLP 805 Third Avenue, 19th Floor New York, New York 10022 Phone (212) 486-7272 ext. 302 Fax (212) 486-0323			Dated: May 2, 2005			
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P11SMALL/REV09